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Name: Andrew H. Yost

Docket No. 3010536 US02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lichtenberger et al.

Examiner: Martin J. Angebrannt

Serial No.: 10/606,885

Filing Date: June 26, 2003

Art Unit: 1756

For: **SILVER REACTIVE METAL ALLOYS
AND OPTICAL DATA STORAGE AND
RECORDABLE STORAGE MEDIA
CONTAINING SAME**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Supplementing the response to the March 30, 2005 office action, please enter the attached Information Disclosure Statement and charge any applicable fees to our Deposit Account No. 50-3010. Relevant passages in the cited documents include the following:

U.S. Patent No. 4,450,553, "Multilayer Information Disc," issued May 22, 1984, discloses at Column 7, lines 59-68 that a partially reflective layer may be made of silver, and that its reflection and adsorption properties depend on the layer's thickness, incorporating a reference to Bond, *Notes on Solution of Problems in Odd Job Vapor Coating*, Journal of the Optical Society of America, Volume 44, No. 6, June 1954, pages 429-438. Bond discloses in Figs. 12, 14, and 16 and 19, pages 434-5, the light transmissive or semi-reflective properties of thin layers, in thickness ranging from between about 5 nanometers to about 25 nanometers, of silver, copper, and titanium among other metals.

U.S. Patent No. 5,853,872, "Magneto-Optical Recording Medium," issued December 29, 1998, discloses at Column 9, lines 12-14 a reflective layer of 20 to 150 nm, and Column 9, line 47 to Column 10, line 18, with the reflective layer being a silver alloy preferably having 90 to

99.5 atom% silver with optimal concentrations of 1.1 to 7.5 atom% manganese and 0.4 to 7.0 atom% titanium.

Japanese Patent Publication No. 02-192046, "Magneto-Optical Recording Medium," published July 27, 1990, which describes a magneto-optical recording medium with a reflective layer that includes silver and manganese, with the manganese content as low as 1 or 2 atomic% in relation to the silver content and a layer thickness as little as 20 nanometers.

Japanese Patent Publication No. 09-212915, "Optical Recording Medium," published August 15, 1997, discloses in paragraphs numbered 0013-0019 that a 70-300 nanometer silver reflecting layer may be deposited on the recording layer by sputtering and may include, among other elements, copper, manganese and titanium to an extent not impairing its function. The publication further discloses in paragraph numbered 0018 that silver layers less than 70 nanometers will permit light to pass through and reflectivity to decline.

Japanese Patent Publication No. 10-011799, "Optical Recording Medium", published January 16, 1998, discloses in paragraphs numbered 0019-0022, a 70-150 nanometer silver reflecting layer deposited by sputtering, with titanium and copper among other listed elements added to the silver reflecting layer, alone or in mixtures, in amounts of 0.1 to 5.0 atm%.

Dated: September 20, 2005

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Respectfully submitted,



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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2
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Complete if Known

<i>Application Number</i>	10/606,885
<i>Filing Date</i>	June 26, 2003
<i>First Named Inventor</i>	Lichtenberger
<i>Art Unit</i>	1756
<i>Examiner Name</i>	Angebrannt, Martin J.
<i>Attorney Docket Number</i>	3010536 US02

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	3	10-011799	01-16-1998	Masatoshi et al		
	4	09-212915	08-15-1997	Takehiro et al		
	5	02-192046	07-27-1990	Masanobu et al		

Examiner
Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/606,885
				Filing Date	June 26, 2003
				First Named Inventor	Lichtenberger et al.
				Art Unit	1756
				Examiner Name	Angebrannt, Martin J.
				Attorney Docket Number	87960.089002US
Sheet	2	of	2		

[illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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